

isc P-Channel MOSFET Transistor

DJR0417

FEATURES

- Drain Current $-I_D = -17A @ T_C = 25^\circ C$
- Drain Source Voltage-
: $V_{DS} = -40V$ (Min)
- Static Drain-Source On-Resistance
: $R_{DS(on)} = 75m\Omega$ (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

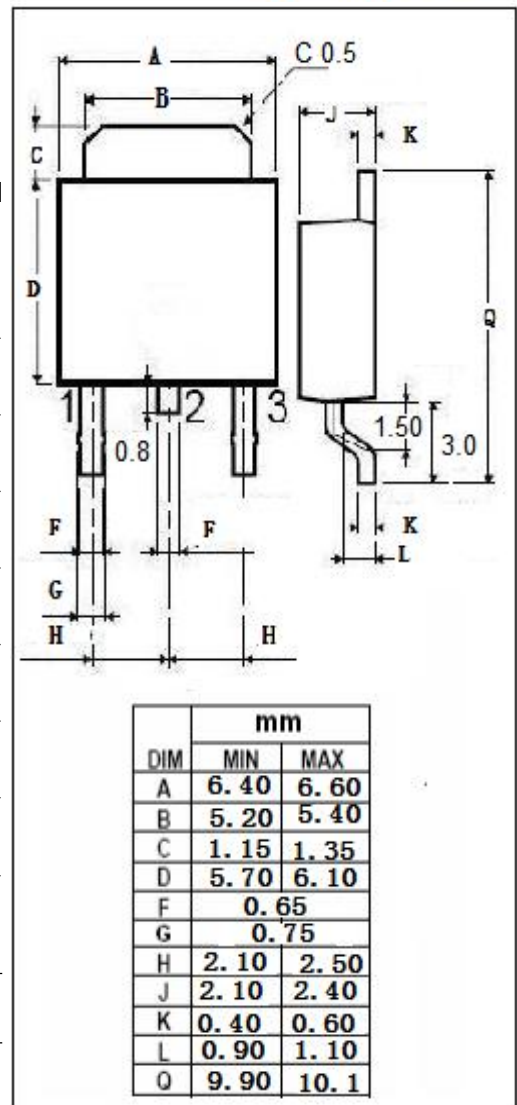
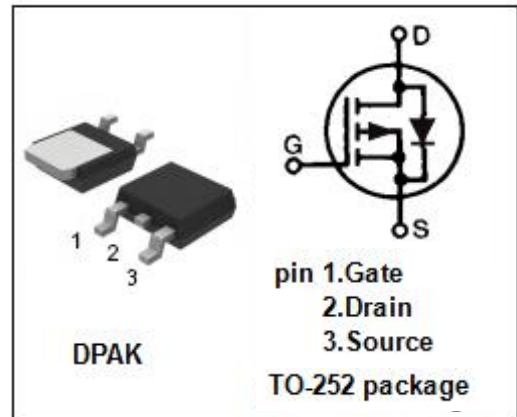
- Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DS}	Drain-Source Voltage	-40	V
V_{GS}	Gate-Source Voltage-Continuous	-15,+0	V
I_D	Drain Current-Continuous	-17	A
P_D	Total Dissipation @ $T_C = 25^\circ C$	48	W
T_J	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	2.6	$^\circ C/W$



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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	$V_{GS} = 0; I_D = -0.1\text{mA}$	-40		V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS} = V_{GS}; I_D = -1\text{mA}$	-1	-2.5	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS} = -10\text{V}; I_D = -8.5\text{A}$		75	$\text{m}\Omega$
I_{GSS}	Gate-Body Leakage Current	$V_{GS} = -15\text{V}; V_{DS} = 0$		-100	μA
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS} = -40\text{V}; V_{GS} = 0$		-100	μA
V_{SD}	Forward On-Voltage	$I_S = -1\text{mA}; V_{GS} = 0$		-16	V

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